

# CHEMICAL CLEANING AND PASSIVATION

Together, CBRE and HENKEL make a strong team when it comes to chemically cleaning and passivating your stainless steel surfaces. GMP-compliant HENKEL chemistry combined with specifically trained CBRE personnel provide the basis for the proper chemical cleaning of stainless steel surfaces in the on-site service sector.

CBRE & HENKEL — The best of two worlds.

## OUR STRENGTHS

Our services from a single source provide a broad processing spectrum for contaminated stainless steel surfaces. We remove rouge coating in pure steam and WFI systems. In combination with wet chemical repassivation, we restore the required passivity of your surfaces and increase corrosion resistance through proper pickling, e.g. after welding, etc. Our special on-site services principally encompass complete processing documentation and professional disposal management with proper wastewater treatment. We also perform our services according to the rules of good manufacturing practice (GMP) in order to ensure a high quality standard.

## OVERVIEW OF OUR SERVICES

### NEW SYSTEMS PRIOR TO INITIAL COMMISSIONING

- Chemical cleaning (degreasing, pickling)
- Passivation
- Pressure tests

### EXISTING SYSTEMS

- Chemical cleaning (degreasing, pickling)
- Derouging and repassivation
- Passivation

### APPLICATION AREAS

- Tube systems
- Tanks and apparatuses
- Components and subsystems

### GMP-COMPLIANT EXECUTION

We always perform our services according to the rules of good manufacturing practice (GMP) in order to ensure a high quality standard. This specifically means:

- A well-established on-site team for optimal reliability
- GMP-trained personnel for the pharma & biotech industry
- Procedure according to the respective SOPs
- Processing documentation
- Full traceability of chemical batches
- All chemicals and additives are water-soluble and effect the pH value & conductivity.
- We provide the entire documentation, which is jointly cleared together with the customer.

# CRITICAL CLEANING AND SYSTEM MAINTENANCE

We are the **ULTIMATE** expert for the maintenance of stainless steel surfaces in Europe. We offer both chemical and electrochemical processing of metal surfaces both on-site as well as at our sites Europe-wide. Innovative technologies, high quality standards and qualified employees are the basis of our success.

**HENKEL surfaces assure your components value.**

## OUR STRENGTHS

We are the right expert for you when it comes to dealing with damaged stainless steel surfaces or steel surfaces that deviate from specifications. We can repair your locally damaged stainless steel surfaces, e.g. due to scratches but also in case of full-surface impairments such as coating. Your stainless steel surfaces will almost look brand new as they did prior to commissioning due to electrochemical polishing and innovative tampon technology with respective surface roughness values. By commissioning HENKEL, you will basically receive a complete processing documentation and professional disposal management with proper rinse water treatment. For us, the rules of good manufacturing practice are both a framework and service claim through which we maintain our high quality.

## OVERVIEW OF OUR SERVICES

### EXISTING SYSTEMS

- Proper mechanical prepolishing
- Anodic cleaning
- Electrochemical polishing
- Corrosion removal (local and areal)

## APPLICATION AREAS

- Tanks and apparatuses
- Components and subsystems

## GMP-COMPLIANT EXECUTION

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## YOUR BENEFITS

In addition to receiving the proven HENKEL service quality for your surfaces, you will benefit from the following advantages when you commission our on-site service team:

- Minimal downtime
- Quick restoration of specification-compliant surfaces
- Efficient technologies
- Experienced personnel
- State-of-the-art equipment and safety technology
- GMP-compliant documentation and chemicals
- Proper rinse water treatment
- On-site project processing at your location with our cooperation partner CBRE